

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/221,980  
Source: IFWB  
Date Processed by STIC: 11-17-04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/17/2004

PATENT APPLICATION: US/10/721,980

TIME: 12:11:59

Input Set : A:\-990-3.app

Output Set: N:\CRF4\11172004\J721980.raw

```

3 <110> APPLICANT: Ow, David W.
4   Calendar, Richard
5   Thomason, Lynn
6   The Regents of the University of California
7   United States Department of Agriculture
8   Agricultural Reserch Service
9   Plant Gene Expression Center
11 <120> TITLE OF INVENTION: DNA Recombination in Eukaryotic Cells by the
12   Bacteriophage phiC31 Recombination System
14 <130> FILE REFERENCE: 02307B-099030US
16 <140> CURRENT APPLICATION NUMBER: US 10/721,980
17 <141> CURRENT FILING DATE: 2003-11-24
19 <150> PRIOR APPLICATION NUMBER: US 60/145,469
20 <151> PRIOR FILING DATE: 1999-07-23
22 <150> PRIOR APPLICATION NUMBER: US 09/620,800
23 <151> PRIOR FILING DATE: 2000-07-21
25 <160> NUMBER OF SEQ ID NOS: 8
27 <170> SOFTWARE: PatentIn Ver. 2.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 24
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence:ura4 primer
37 <400> SEQUENCE: 1
38 gtcaaaaagt ttcgtcaata tcac                                24
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 102
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Description of Artificial Sequence:90 bp of the
48   attB sequence contained in pFY12 flanked by
49   HindIII and KpnI sites
51 <400> SEQUENCE: 2
52 aagcttgacg gtctcgaagc cgcggtgcgg gtgccagggc gtgcccttgg gctccccggg 60
53 cgcgtactcc acctcaccca tctggtccat catgatggta cc                102
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 63
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Description of Artificial Sequence:50 bp of the

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/721,980

DATE: 11/17/2004

TIME: 12:11:59

Input Set : A:\-990-3.app

Output Set: N:\CRF4\11172004\J721980.raw

```

63      attB sequence contained in pFY14 flanked by
64      HindIII and KpnI sites
66 <400> SEQUENCE: 3
67 aagcttgccg gtgccagggc gtgcccttgg gctccccggg cgcgtactcc acctcatggt 60
68 acc 63
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 44
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence:30 bp of the
78      attB sequence contained in pFY15 flanked by
79      HindIII and KpnI sites
81 <400> SEQUENCE: 4
82 aagcttccag ggcgtgccct tgggctcccc gggcgcattg tacc 44
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 102
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Description of Artificial Sequence:90 bp of the
92      attP sequence contained in pFY17 flanked by SacI
93      and BamHI sites
95 <400> SEQUENCE: 5
96 gagctcgaag cggttttcgg gagtagtgcc ccaactgggg taacctttga gttctctcag 60
97 ttgggggcgt agggtcgccg acatgacaca aggggtggat cc 102
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 62
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence:50 bp of the
107      attP sequence contained in pFY19 flanked by SacI
108      and BamHI sites
110 <400> SEQUENCE: 6
111 gagctctgcc ccaactgggg taacctttga gttctctcag ttgggggcgt agggtcggat 60
112 cc 62
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 42
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Description of Artificial Sequence:32 bp of the
122      attP sequence contained in pFY20 flanked by SacI
123      and BamHI sites
125 <400> SEQUENCE: 7
126 gagctcactg gggtaacctt tgagttctct cagttgggat cc 42
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 89

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/721,980

DATE: 11/17/2004

TIME: 12:11:59

Input Set : A:\-990-3.app

Output Set: N:\CRF4\11172004\J721980.raw

131 <212> TYPE: DNA  
132 <213> ORGANISM: Artificial Sequence  
134 <220> FEATURE:  
135 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic  
136       oligonucleotide containing a Kozack sequence and  
137       the N-terminal amino acid coding sequences of the  
138       integrase gene  
140 <400> SEQUENCE: 8  
141 gggcccgcca cgatgacaca aggggttggtg accgggggtgg acacgtacgc ggggtgcttac 60  
142 gaccgtcagt cgcgcgagcg cgagaattc 89

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/721,980

DATE: 11/17/2004

TIME: 12:12:00

Input Set : A:\-990-3.app

Output Set: N:\CRF4\11172004\J721980.raw